

**AY2021-22 CURRICULUM FOR BACHELOR OF ENGINEERING (CIVIL)
WITH SECOND MAJOR IN ENTREPRENEURSHIP - PROFESSIONAL INTERNSHIP
(FIRST YEAR ADMISSION)**

Last Updated : 20-Jan-22

SUMMARY OF ACADEMIC UNIT REQUIREMENT						
Year of Study	Core	MPE	CC	FC	BDE	Total AU
1	28	0	9	0	6	43
2	24	0	8	3	6	41
3	11	0	0	7	8	26
4	17	3	0	0	10	30
Total	80	3	17	10	30	140

* Students without 'A' Level Physics will take 'PH1012 Physics A' (4AU).

YEAR 1 SEMESTER 1				
Course Code	Course Title	Type	AU	Pre-Requisite
MH1810	Mathematics 1	C	3	
PH1011	Physics*	C	3	
FE1073	An Introduction to Engineering & Practices	C	1	
CV1011	Mechanics of Materials	C	4	
CV1012	Fluid Mechanics	C	3	
CC0001	Inquiry and Communication in the Interdisciplinary World	CC	2	HW0001
CC0002	Navigating the Digital World	CC	2	
ET5211	Entrepreneurial Mindset and Technology Innovation	BDE	3	
			21	

YEAR 1 SEMESTER 2				
Course Code	Course Title	Type	AU	Pre-Requisite
MH1811	Mathematics 2	C	3	MH1810
CV1013	Civil Engineering Materials	C	3	
CV1014	Introduction To Computational Thinking	C	3	
CV2020	Water Resources Engineering	C	3	CV1012
EG1001	Engineers In Society	C	2	
CC0003	Ethics & Civics in a Multi-Cultural World	CC	2	
CC0005	Healthy Living & Wellbeing	CC	3	
ET5213	Managing New Ventures	BDE	3	
			22	

YEAR 2 SEMESTER 1				
Course Code	Course Title	Type	AU	Pre-Requisite
CV2011	Structural Analysis I	C	3	CV1011
CV2013	Engineering Geology & Soil Mechanics	C	3	
CV2711	Civil Engineering Laboratory A	C	1	
MH2814	Probability & Statistics	C	3	MH1810
CV0003	Introduction to Data Science and Artificial Intelligence	FC	3	CV1014
CC0006	Sustainability: Society, Economy & Environment	CC	3	
ML0004	Career and Entrepreneurial Development for the Future World	CC	2	
ET5212	Entrepreneurial Ecosystems	BDE	3	
			21	

YEAR 2 SEMESTER 2				
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Course Code	Course Title	Type	AU	Pre-Requisite
CV1711	Engineering Drawing and 3D Building Information Modelling	C	1	
CV2012	Structural Analysis II	C	3	CV2011
CV2014	Geotechnical Engineering	C	3	CV2013
CV2019	Matrix Algebra & Computational Methods	C	3	
CV2712	Civil Engineering Laboratory B	C	1	
CV3012	Steel Design	C	3	CV2011
CC0007	Science & Technology for Humanity	CC	3	
ET5214	Financing Entrepreneurial Ventures	BDE	3	ET9213
			20	

YEAR 3 SEMESTER 1

Course Code	Course Title	Type	AU	Pre-Requisite
CV3011	Reinforced Concrete Design	C	3	CV2011
CV3013	Foundation Engineering	C	3	CV2013 & CV2014
CV3014	Transportation Engineering	C	3	
CV3017	Environmental Engineering	C	2	CV1012
HW0288	Engineering Communication	FC	2	CC0001
	SMiE Elective Course 1	BDE	3	
			16	

YEAR 3 SEMESTER 2

Course Code	Course Title	Type	AU	Pre-Requisite
CV3914	Professional Internship	FC	5	Year 3 standing &
		BDE	5	completed ET9211 &
				ET9213
			10	

YEAR 4 SEMESTER 1

Course Code	Course Title	Type	AU	Pre-Requisite
CV4012	Project Planning & Management	C	2	Year 4 Standing
CV4711	Seminars & Site Visits	C	1	
CV4911	Final Year Project	C	4	Year 4 Standing
CV4XXX	Major Prescribed Elective	MPE	3	Refer to Syllabus
	SMiE Elective Course 2	BDE	3	
			13	

YEAR 4 SEMESTER 2

Course Code	Course Title	Type	AU	Pre-Requisite
CV3016	Construction Technology & Processes	C	3	
CV4911	Final Year Project	C	4	Year 4 Standing
CV4912	Integrated Design Project	C	3	Year 4 Standing
	SMiE Elective Course 3	BDE	3	
	SMiE Elective Course 4	BDE	4	
			17	

Total AU for Graduation : **140**